



TCXO ULTRA HIGH STABILITY

NEW

Product Number (Please contact us)
X1G003561xxxx00

TG - 5500CA

- Frequency range : 12.8 MHz to 40 MHz
- Supply voltage : 3.3 V
- Frequency / temperature characteristics : $\pm 0.28 \times 10^{-6}$ Max.
- External dimensions: 7.0 $\times$ 5.0 $\times$ 1.5 mm
- Applications : Network system, Stratum3
- Features : Ultra high stability



Actual size



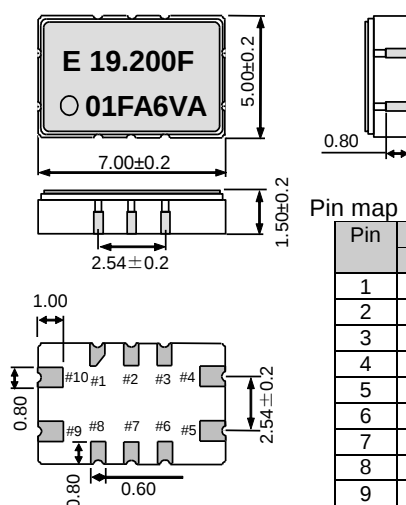
Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks
		VC-TCXO	TCXO	
Output frequency range	f ₀	12.8 MHz to 40.0 MHz		Standard frequency
		12.8, 16.368, 19.2, 20, 25.6, 26, 32.736, 40 MHz		
Supply voltage	V _{cc}	3.3 V± 0.165V (Supply voltage range :2.7 V to 5.5 V)		
Storage temperature	T _{stg}	-40 °C to +90 °C		Store as bare product.
Operating temperature	T _{use}	-40 °C to +85 °C		
Frequency tolerance	f _{tol}	±1.0 ×10 ⁻⁶ Max.		After reflow, +25 °C
Frequency/temperature characteristics	f ₀ -T _c	±0.28 × 10 ⁻⁶ Max.		-40 °C to +85 °C
Frequency/load coefficient	f ₀ -Load	±0.1 × 10 ⁻⁶ Max.		15 pF ±10 %
Frequency/voltage coefficient	f ₀ -V _{cc}	±0.1 ×10 ⁻⁶ Max.		V _{cc} =3.3 V ± 0.165 V
Frequency aging	f _{age}	±0.5 ×10 ⁻⁶ Max.		+25 °C , First year
		±3.0 ×10 ⁻⁶ Max.		+25 °C , 20 years
Current consumption	I _{cc}	5.0 mA Max.		12.8 MHz ≤ f ₀ ≤ 26 MHz
		6.0 mA Max.		26 MHz < f ₀ ≤ 40 MHz
Input resistance	R _{in}	100 kΩ Min.	—	V _c - GND (DC)
Frequency control range	f _{cont}	±5.0 × 10 ⁻⁶ to ±12.0 ×10 ⁻⁶	—	V _c =1.65 V ± 1.65 V
Frequency change polarity	—	Positive polarity	—	
Symmetry	SYM	40 % to 60 %		GND level (DC cut)
Output voltage	V _{OH}	0.9 V Min.		
	V _{OL}	0.1 V Max.		
Output load condition (CMOS)	L _{CMOS}	15 pF Max.		
Input voltage	V _{IH}	2.4 V Min.		OE terminal
	V _{IL}	0.6 V Max.		

* Note : Please contact us for inquiries about specifications other than the above.

External dimensions

(Unit: mm)



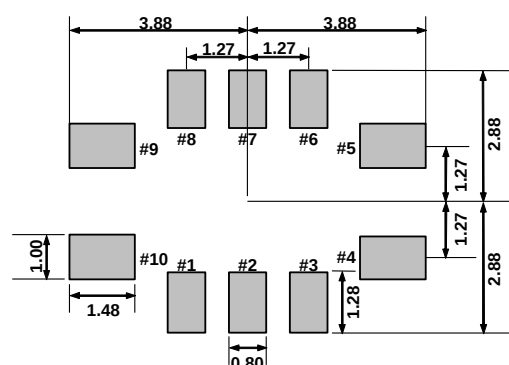
Pin map

Pin	Connection	
	VC-TCXO	TCXO
1	N.C	
2	N.C	
3	N.C	
4	GND	
5	OUT	
6	N.C	
7	N.C	
8	OE	
9	V _{cc}	
10	VC	N.C

OE pin = "H" or "open": Specified frequency output.
OE pin = "L": Output is high impedance.

Footprint (Recommended)

(Unit: mm)



To maintain stable operation, provide a 0.01 μ F to 0.1 μ F by-pass capacitor at a location as near as possible to the power source terminal of the crystal product (between V_{cc} - GND).

Mouser Electronics

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